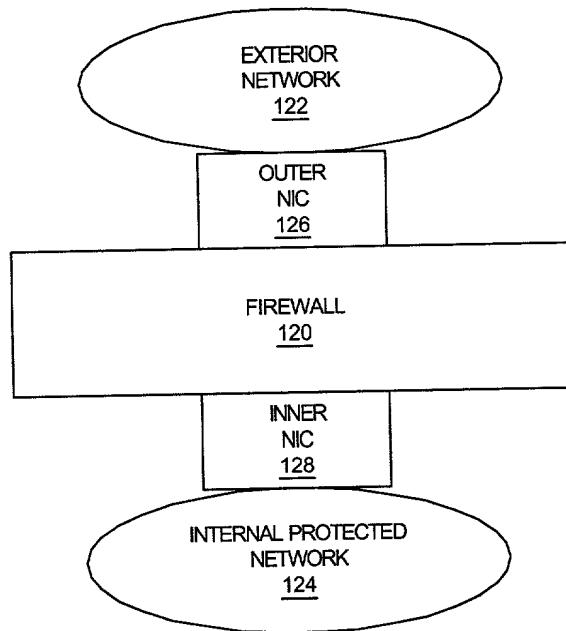


Prior Art

Figure 1A



Prior Art

Figure 1B

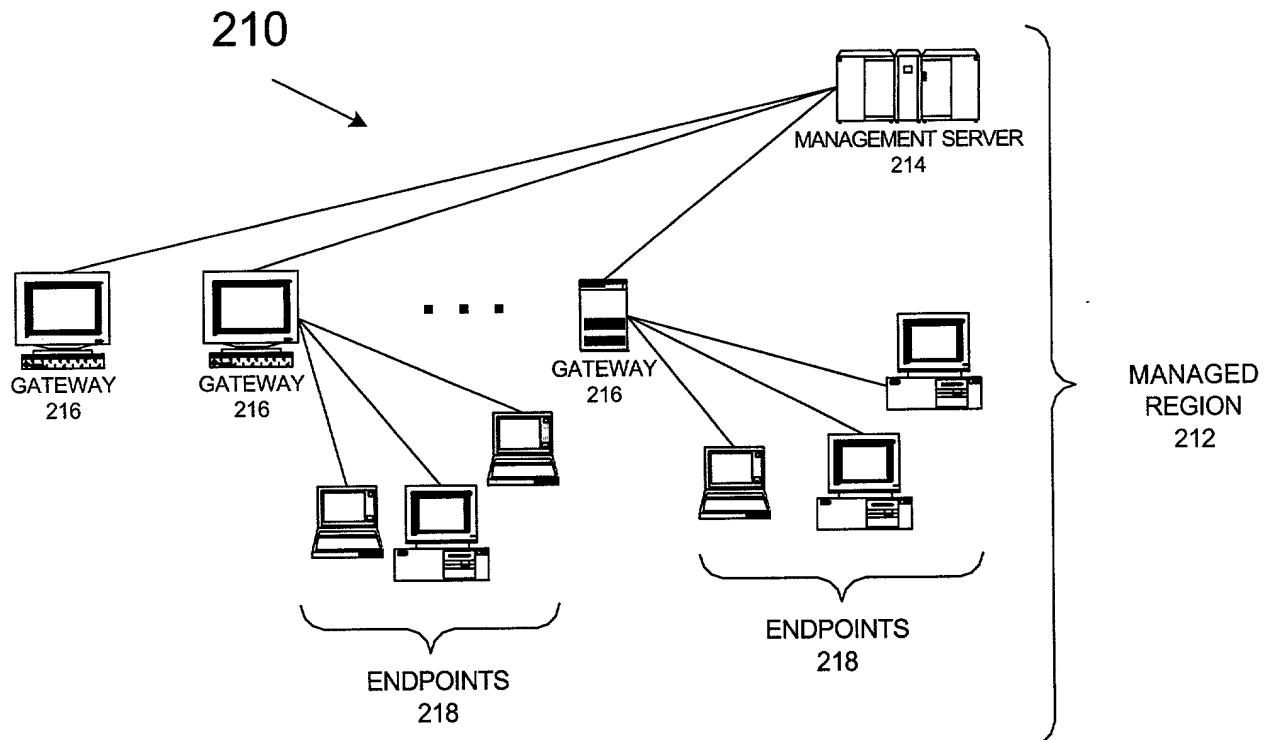


Figure 2A

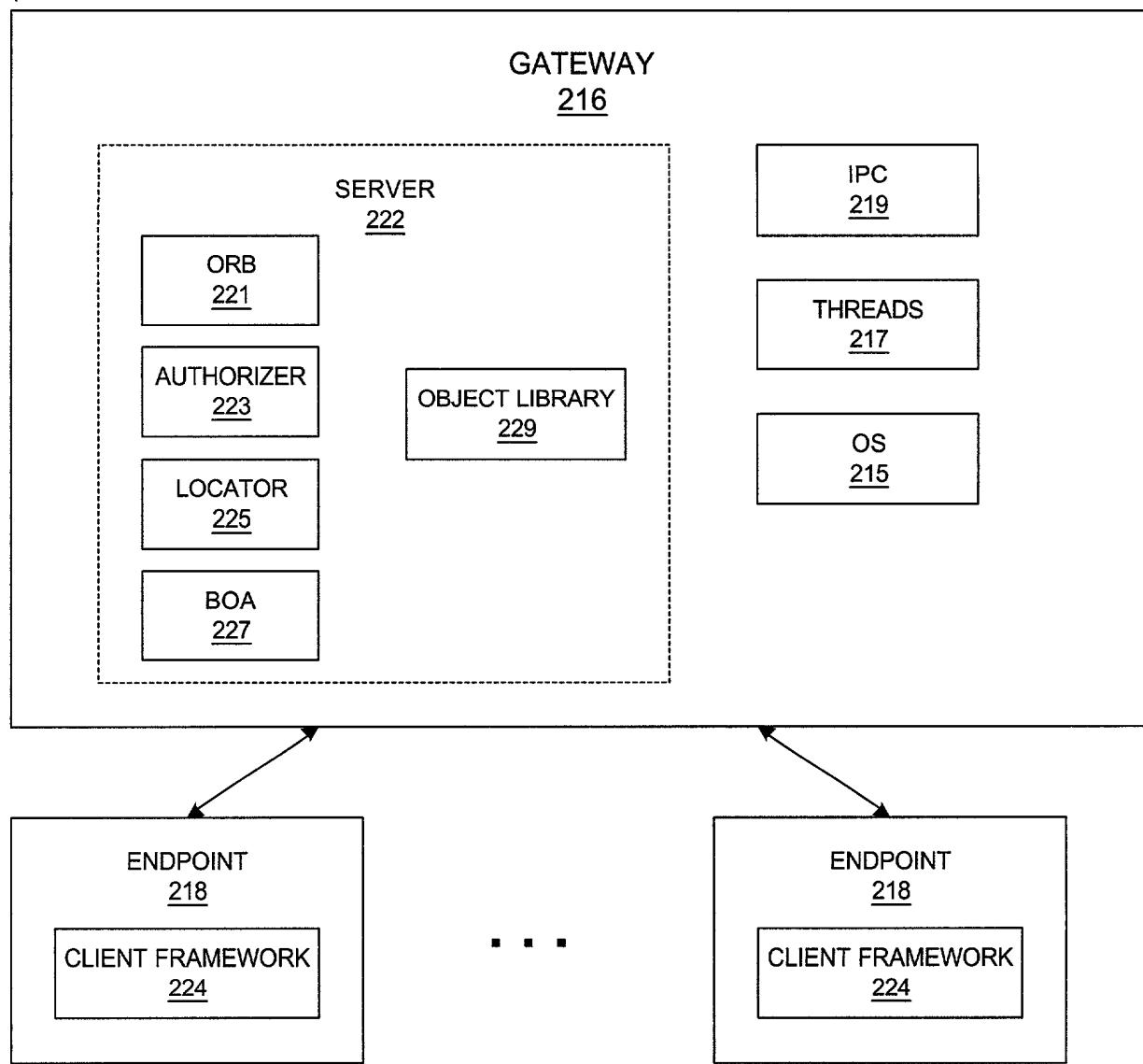


Figure 2B

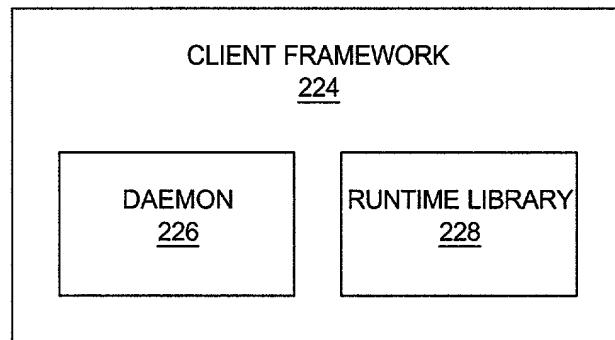


Figure 2C

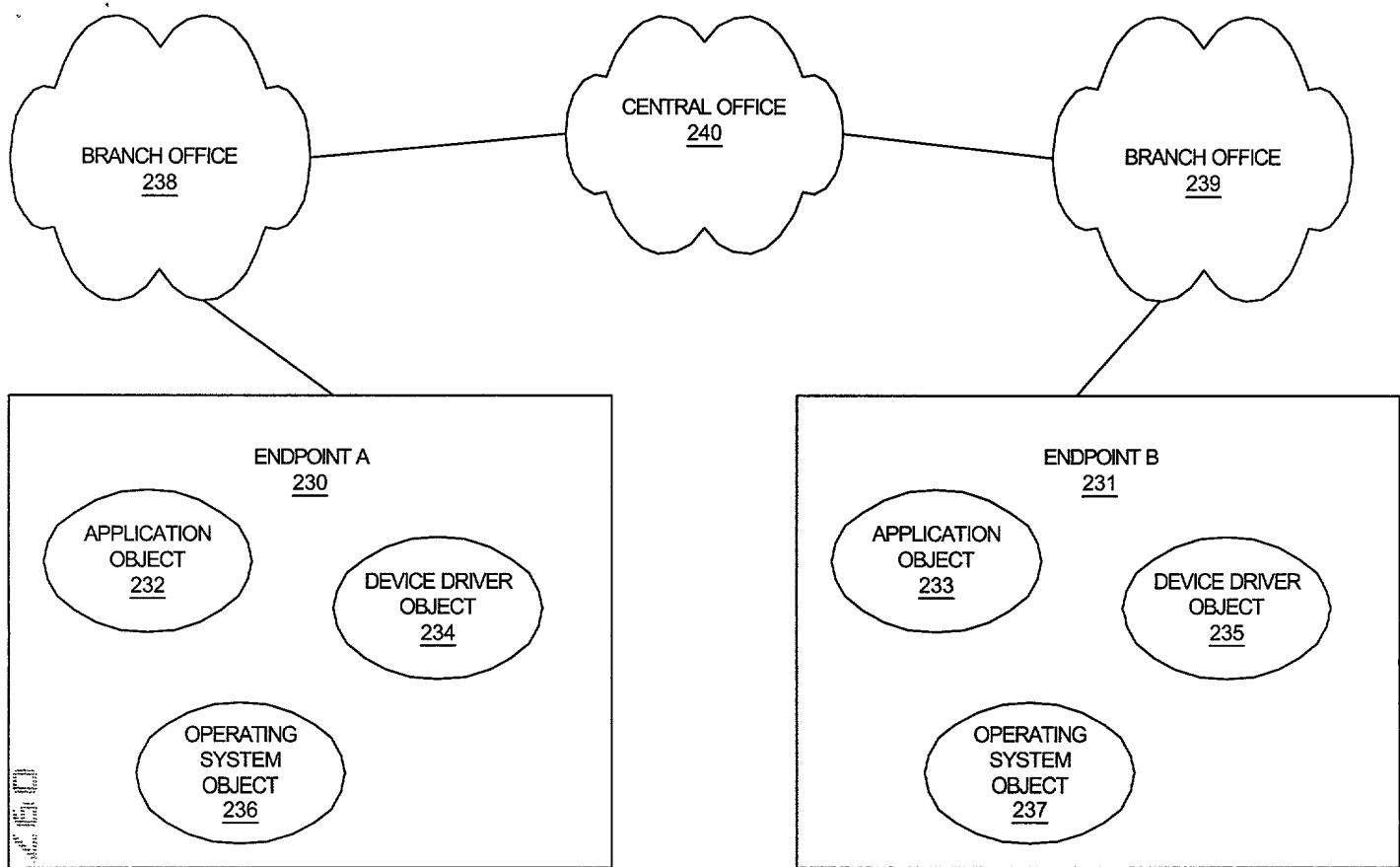


Figure 2D

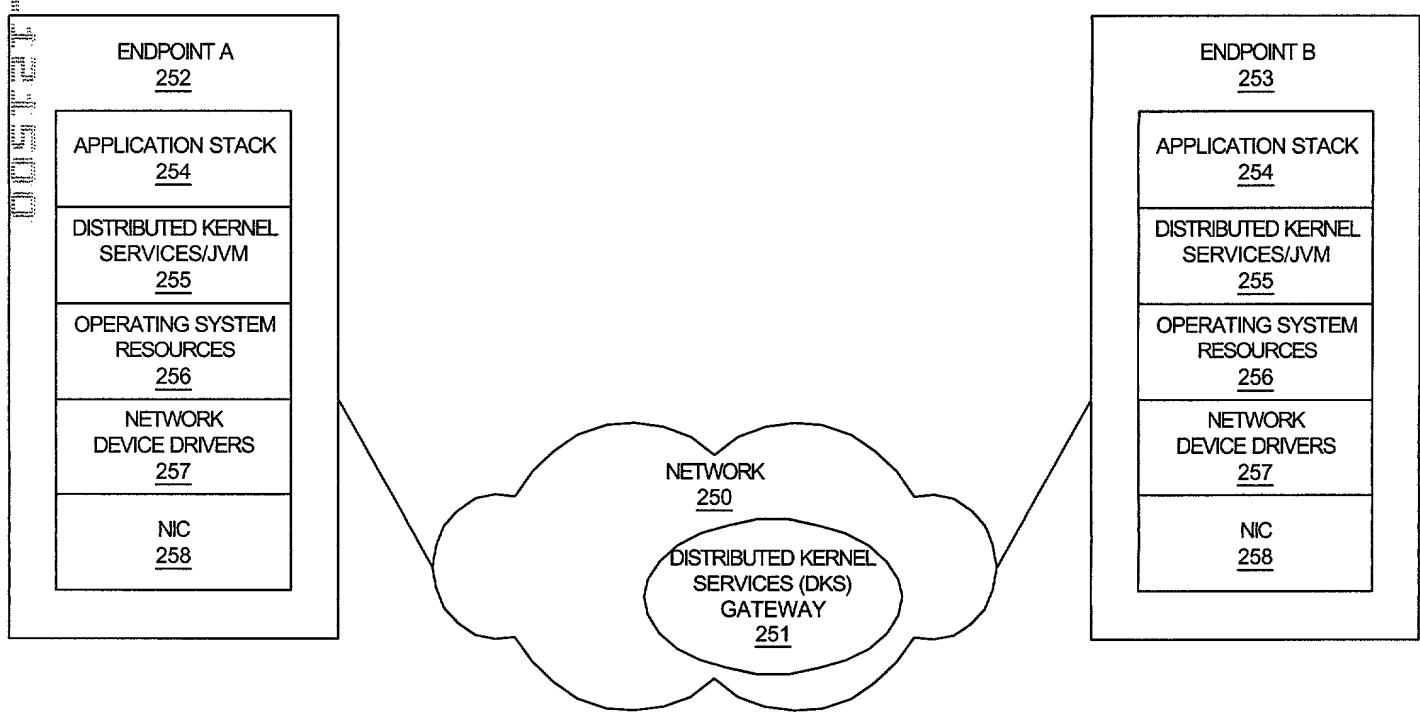


Figure 2E

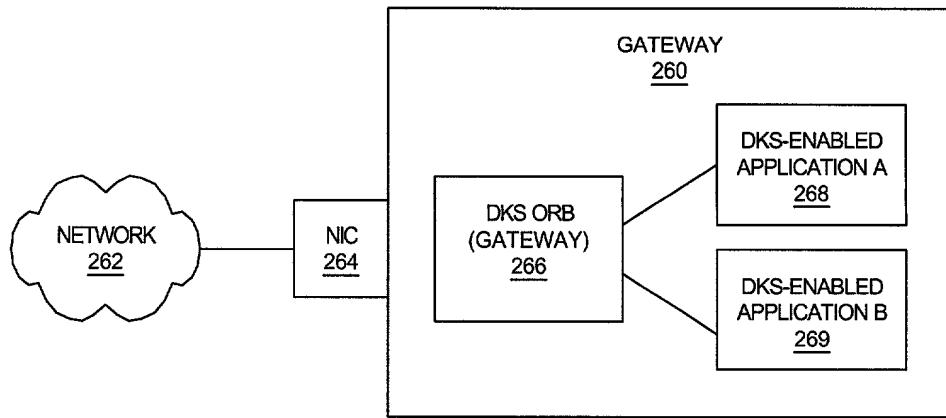


Figure 2F

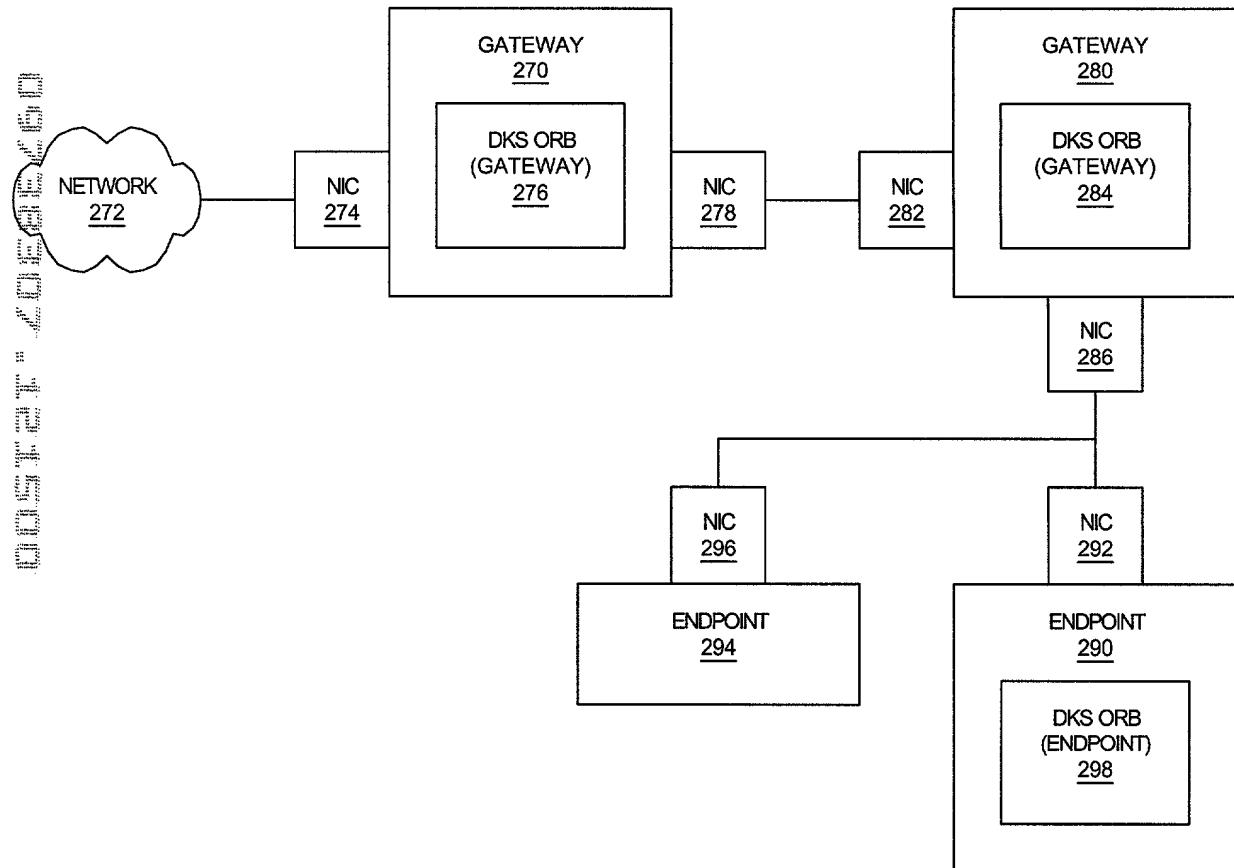


Figure 2G

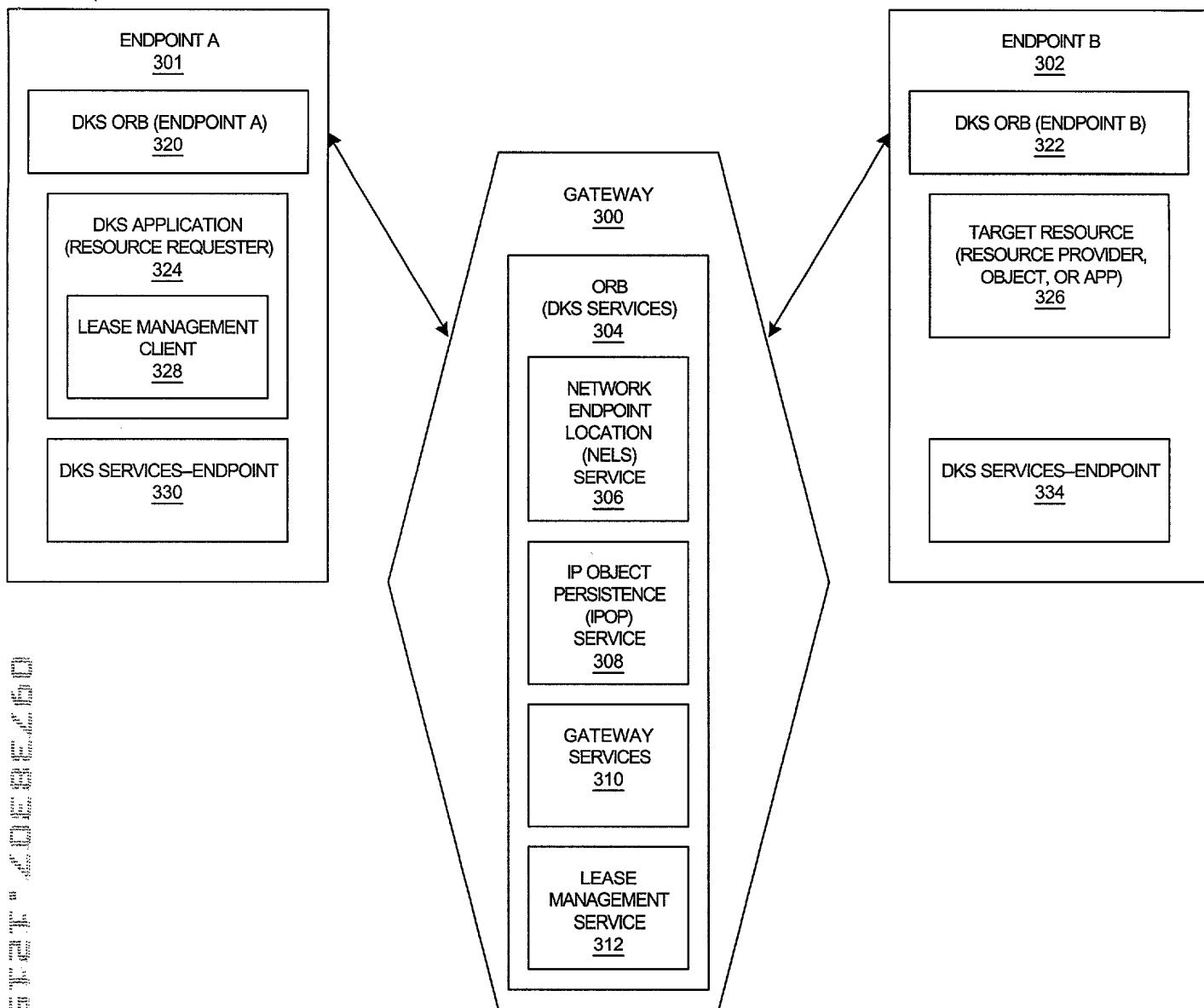


Figure 3

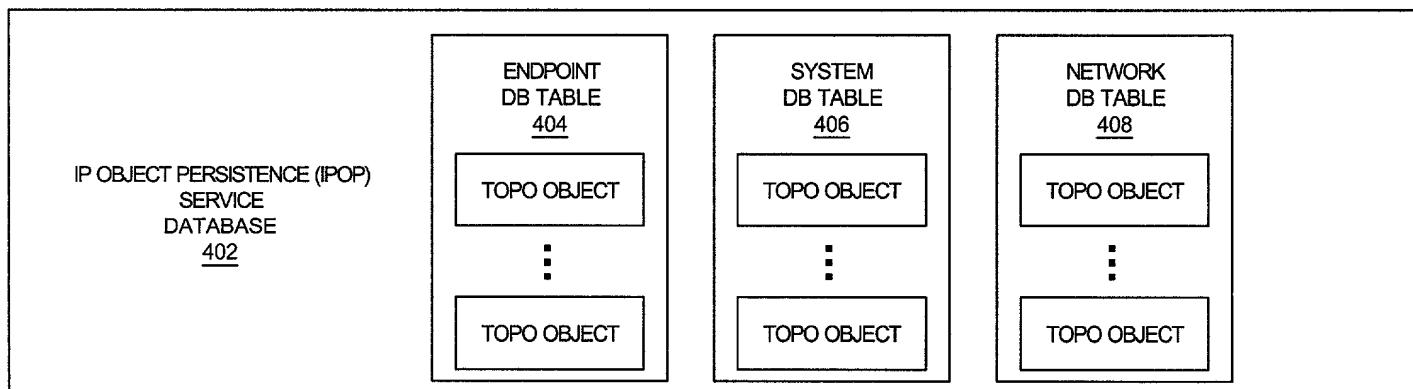


Figure 4

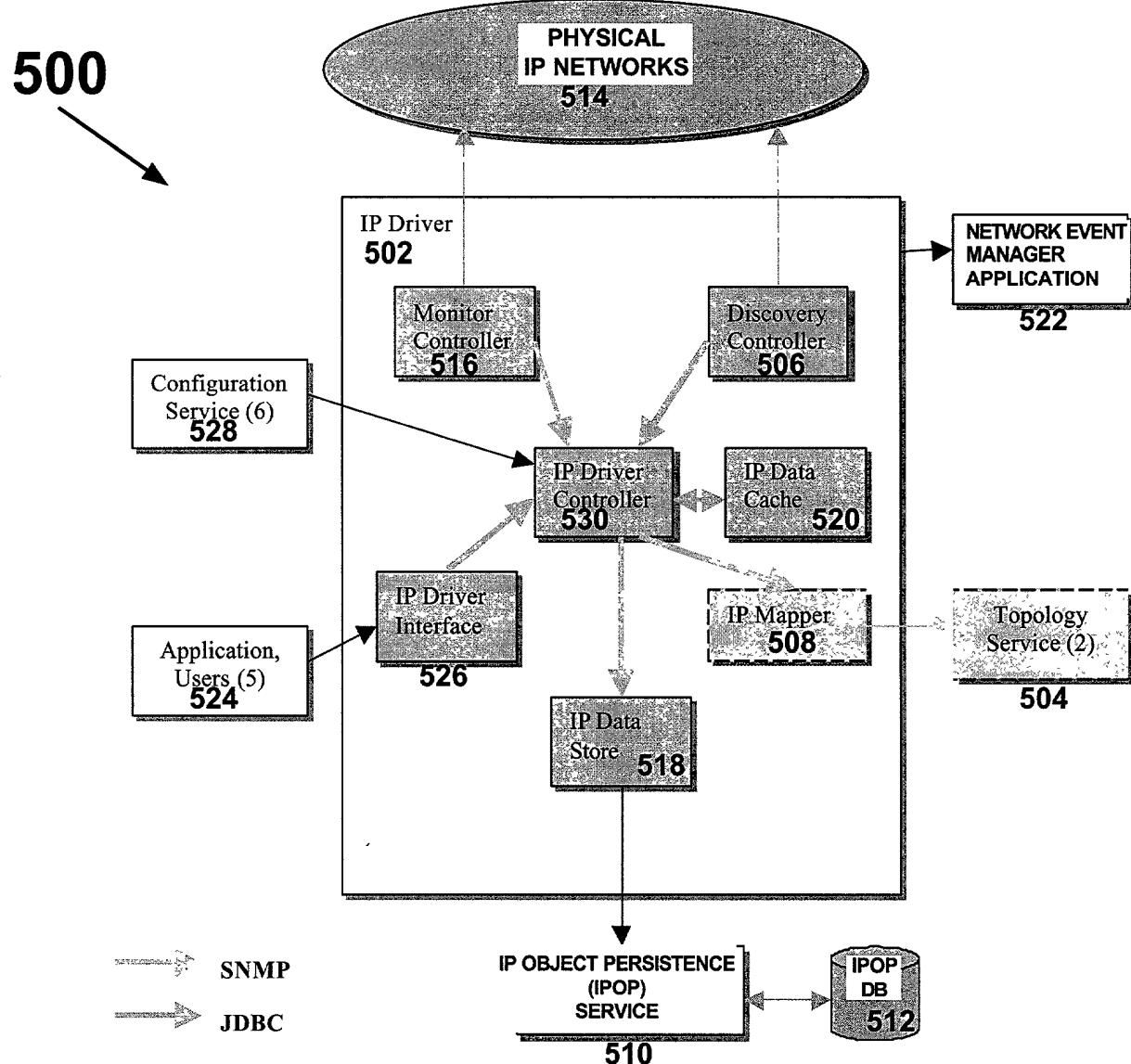


Figure 5

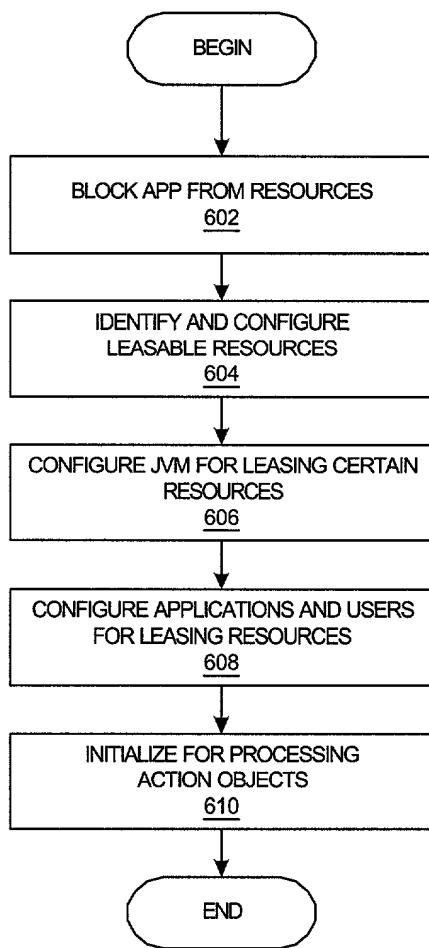


Figure 6A

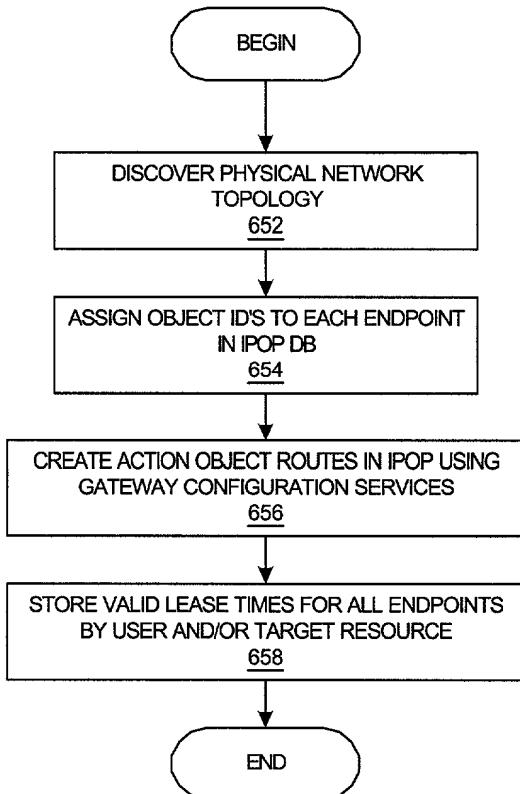


Figure 6B

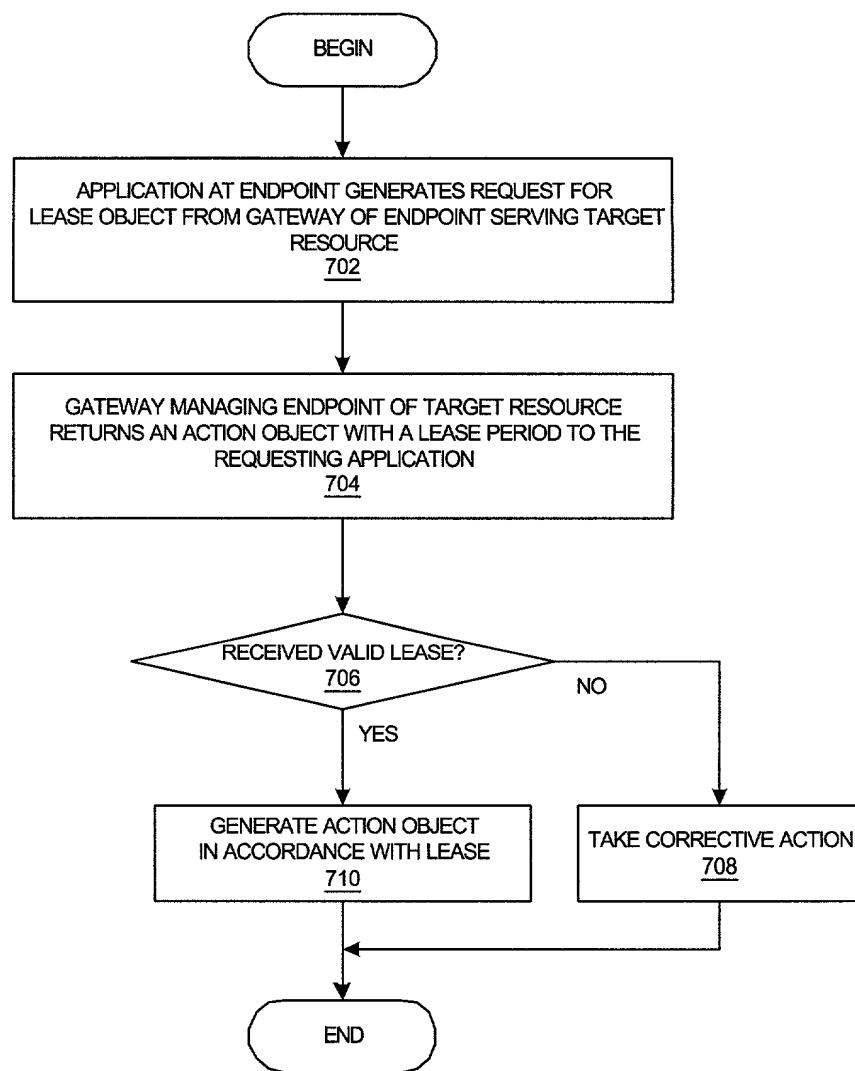


Figure 7A

```

CLASS ACTION_OBJECT {
    // CONSTRUCTOR
    ACTION_OBJECT( LONG IPADDRESS, SHORT VIRTUALPRIVATENETWORKADDRESS )
        THROWS BADADDRESS ...
    .
    .
    .
    VOID PERFORMACTION() // EXECUTES ACTION METHOD
}
    
```

Figure 7B

```
CLASS LEASE_ACTION_OBJECT EXTENDS ACTION_OBJECT {  
    . . .  
    // CONSTRUCTOR  
    LEASE_ACTION_OBJECT( LONG IPADDRESS, SHORT VIRTUALPRIVATENETWORKADDRESS,  
                        INT LEASETIME)  
    THROWS BADADDRESS, LEASETIMENOTACCEPTABLE_EXCEPTION,  
          LEASEBANDWIDTHMUSTBEREDUCED_EXCEPTION,  
          LEASETERMINATED_EXCEPTION, ...  
    . . .  
    PUBLIC INT LEASETIME;      // STORE LEASE TIME  
    STATIC FINAL INFINITELEASETIME = -1;  
    STATIC FINAL ZEROLEASETIME = 0;  
    . . .  
}
```

Figure 7C

```
CLASS LEASETIMENOTACCEPTABLE_EXCEPTION EXTENDS EXCEPTION {  
    . . .  
}  
CLASS LEASEBANDWIDTHMUSTBEREDUCED_EXCEPTION EXTENDS EXCEPTION {  
    . . .  
}  
CLASS LEASETERMINATED_EXCEPTION EXTENDS EXCEPTION {  
    . . .  
}
```

Figure 7D

```
XYZ_APPLICATION_METHOD {  
    LEASE_ACTION_OBJECT      MYLEASEDACTIONOBJECT = NULL;  
    . . .  
    MYLEASEDACTIONOBJECT = NEW LEASEDACTIONOBJECT( . . . );  
    MYLEASEDACTIONOBJECT.PERFORMACTION( . . . );  
    . . .  
}
```

Figure 7E

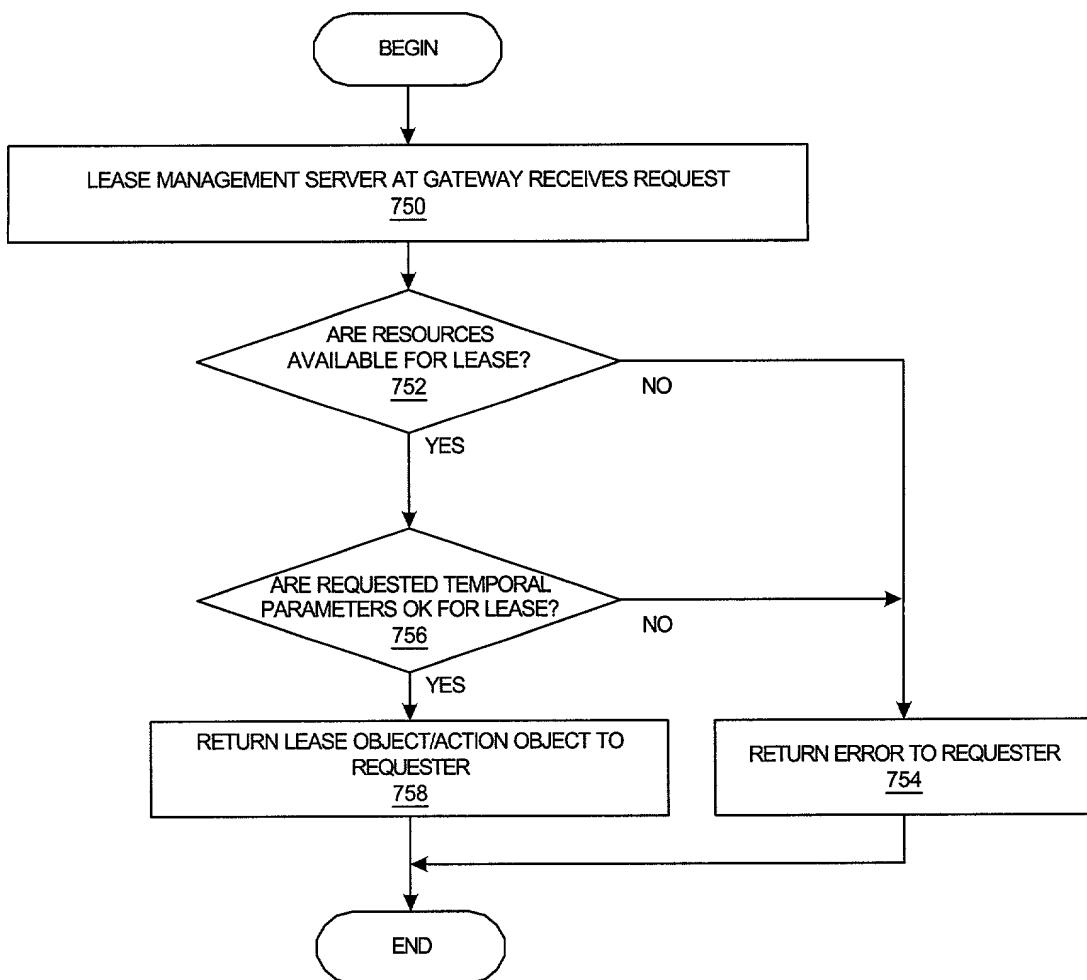


Figure 7F

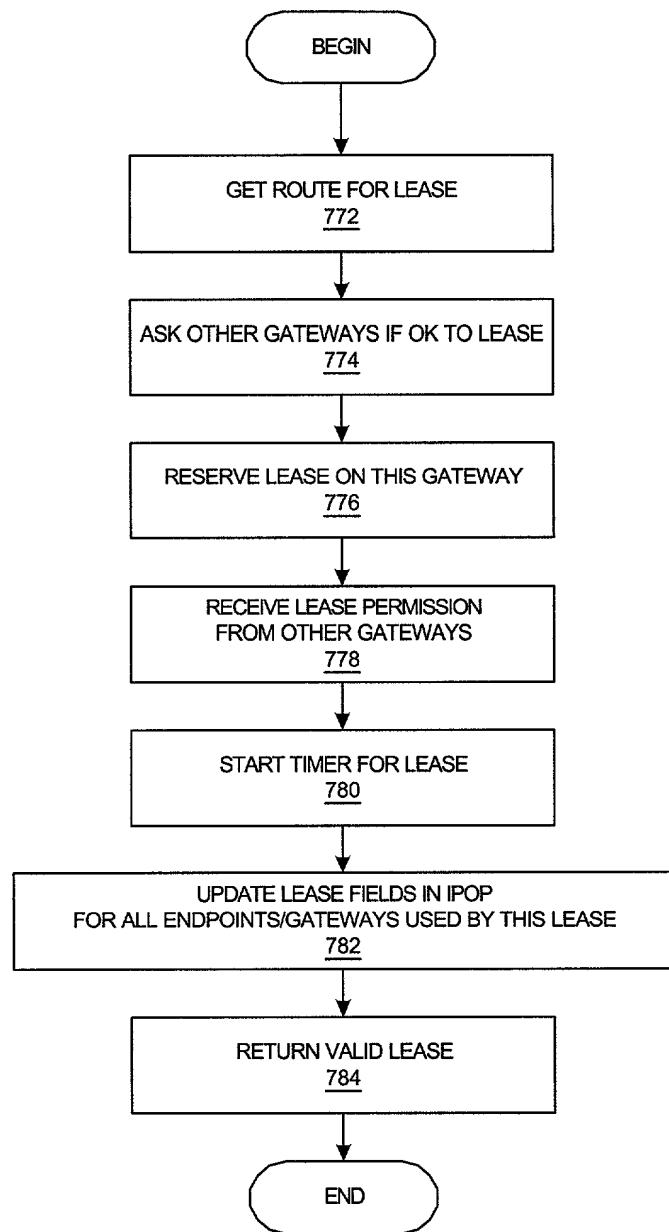


Figure 7G

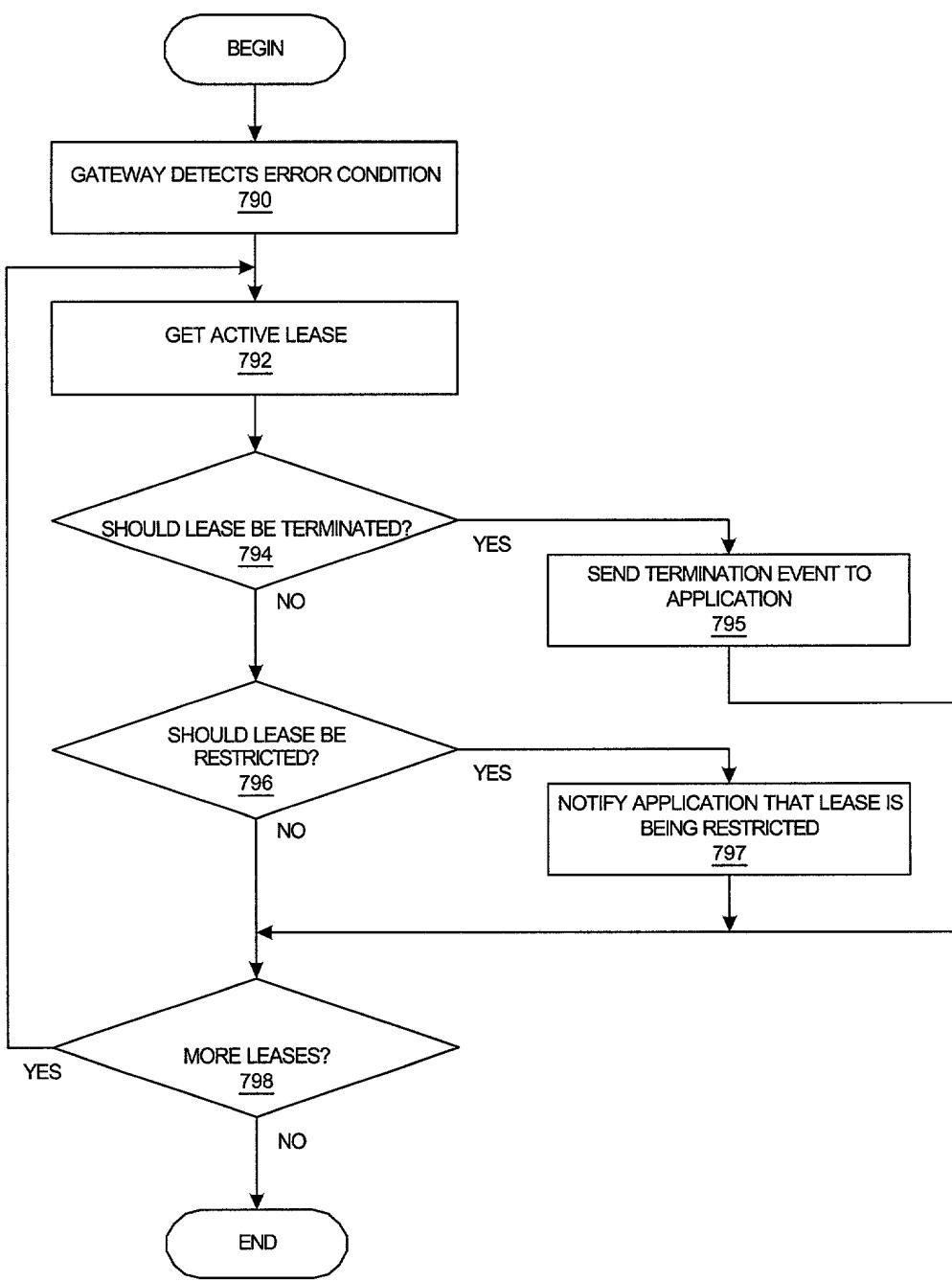


Figure 7H

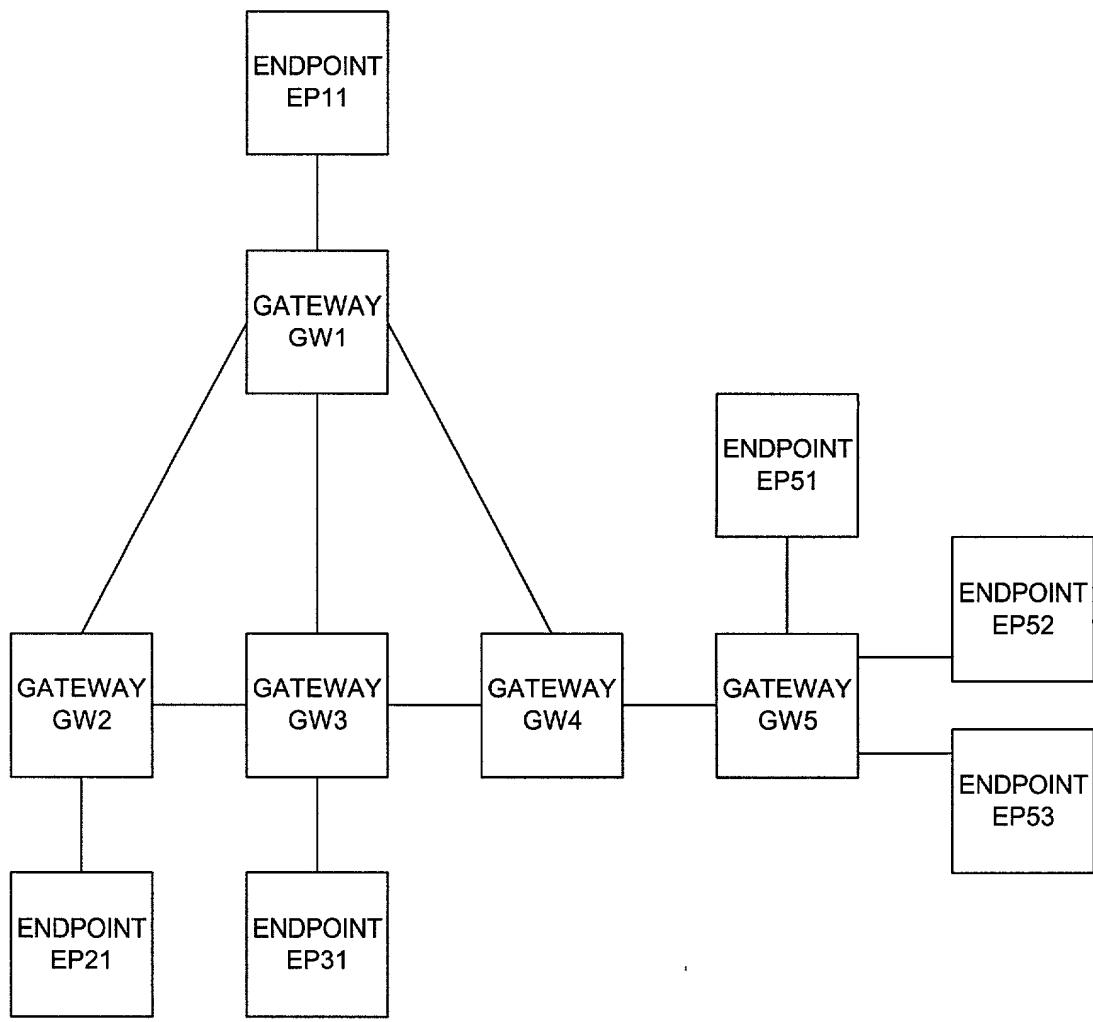


Figure 8